Catalog No. LF-PA0160

POLYCLONAL ANTIBODY

Anti-p38 MAPK

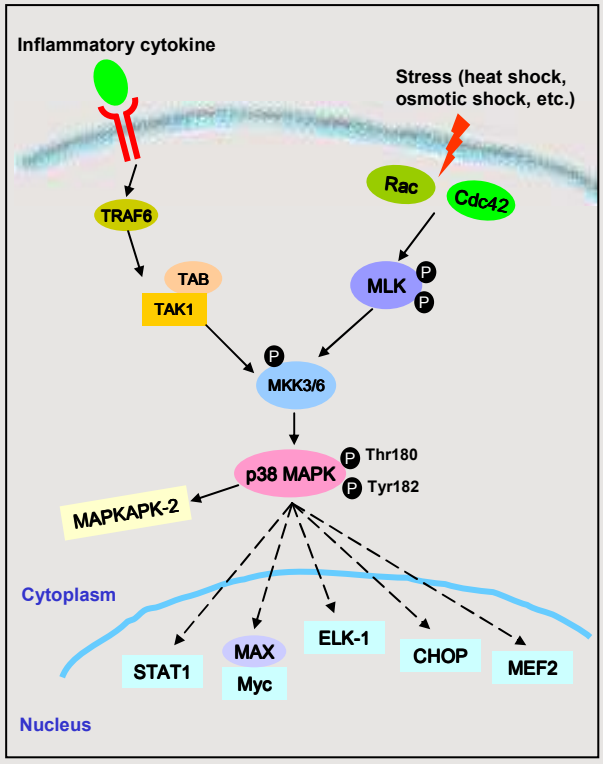
Background : p38 MAPK cascade regulates a variety of cellular responses to stress, inflammation and other signals. p38 MAPK is relatively inactive in the non-phosphorylated form and becomes rapidly activated by dual phosphorylation of a Thr-Gly-Tyr motifs. There are four isoforms of p38 MAPK, α, β, γ and δ, which differ in their tissue expression and affinity for upstream activators and downstream effectors.
When cells are exposed to tumor necrosis factor-α, interleukin-1, heat shock, or other activating stimuli, activation of MAPK kinase-3 and –6 occurs by phosphorylation. Activated MAPK kinase-3/6 phosphorylate each residue of Thr180 and Tyr182 in p38 MAPK. Phospho-p38 MAPK activates ATF-2, CHOP-1, MEF-2 and other transcription factors through phosphorylation.

Immunogen : Synthetic Glutaldehyde peptide (KLH coupled) corresponding to C-terminal residues of human p38 MAP kinase

Host : Rabbit

Size : 100 µℓ

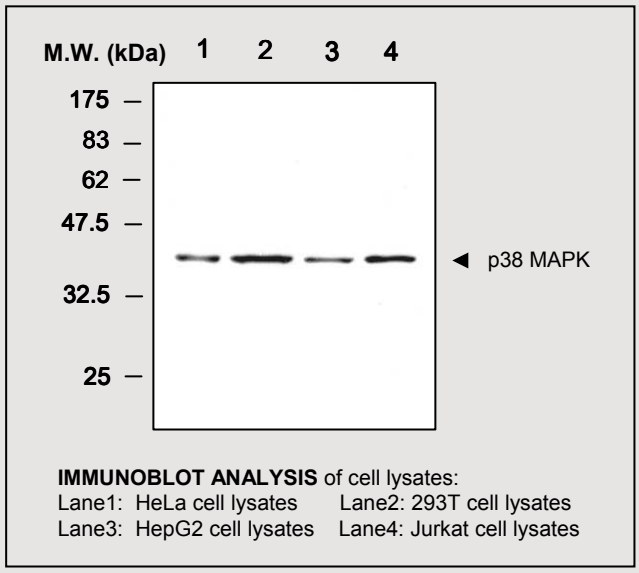
Composition : PBS containing 50% glycerol



Positive control : Jurkat cell lysates

Storage : store for 1 year at -20°C from date of shipment

Species cross reactivity		
Human	**Mouse**	**Rat**
+	+	+



IMMUNOBLOT ANALYSIS of cell lysates:
Lane1: HeLa cell lysates Lane2: 293T cell lysates
Lane3: HepG2 cell lysates Lane4: Jurkat cell lysates

Applications :

Western Blotting (1:2,000)

Background Reference:

1) Rouse, J. et al. (1994) Cell, 78, 1027-1037
2) Herlaar, E. and Brown, Z. (1999) Mol. Med. Today, 5(10), 439-447
3) Martin-Blanco, E. (2000) BioEssays, 22(7), 637-645
4) Olson, J.M. and Hallahan, A.R. (2004) Trends Mol. Med. 10(3), 125-129

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